UNCLASSIFIED CONFIDENTIAL SECRET

ROUTING AND RECORD SHEET

INSTRUCTIONS: Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry.

FROM:	TELEPHONE NO.
OC-E/R&D-EP	25X1-
	DATE 2 November 1955

TO	ROOM NO.	DATE REC'D	DATE FWD'D	OFFICER'S INITIALS	TELEPHONE	COMMENTS
1. R&D Lab			11-14	DHH		1 – 2, 3 Evidently there has been no decision made yet on this project. 25X1 DHH
2.						3. transistorized Video Amp (file)
3.		11-14	11-14	MCP		
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

FORM NO. 1 APR 55 610 REPLACES FORM 51-10 WHICH MAY BE USED.

SECRET CONFIDENTIAL UNCLASSIFIED

SECRET

Chief, Research and Development Branch 2 November 1955

Chief, External Projects Section, R&DB

Proposed [redacted] ELINT Collection Systems. 25X1

1. During your absence on 1 November, [redacted] and [redacted] of OC-SP/EA contacted me relative to a new, or at least a proposed, need for procuring quickly [redacted] collecting devices. The devices outlined by [redacted] would be composed of one of the NRL antennas as built by [redacted] which had been modified by using surface barrier transistors and with forward bias for the crystal; and a pulse stretching network terminated in an output transformer. This device could then be utilized directly with any small recorder without requiring recorder modification. 25X1 25X1 25X1 25X1 25X1 25X1

2. [redacted] placed emphasis upon the fact that he desired these to be produced in the quickest possible manner, whether it be done by the Laboratory or by [redacted] Although [redacted] would like the existing [redacted] antennas modified to provide space within the antenna mounting for the additional units, he is agreeable, in the interest of saving time, to repackaging the modified [redacted] and pulse stretching and matching transformers as a unit which could be clamped to the existing horns. 25X1 25X1 25X1 25X1

3. The following facts are pertinent to this procurement problem.

a. SP/EA plans to order 25 [redacted] with surface barrier transistors. 25X1

b. All [redacted] antennas physically on hand or ordered have been allocated. Therefore, additional horns will have to be ordered; in this instance, a quantity of 20. 25X1

c. The five remaining modified hearing aids are to be presence receivers and will not require specific types of [redacted] antennas for their use. 25X1

DOCUMENT NO. _____
NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S ©2010
NEXT REVIEW DATE: _____
AUTH: HR 70-2
DATE: 2 DEC 1980 REVIEWER: 064540

SECRET

SECRET

4. This fabrication could be accomplished in two ways: First, by giving the entire problem to [redacted] and Second, by having [redacted] fabricate the antennas and having the Laboratory modify the hearing aids and add pulse stretching and output matching transformers. The antenna production would naturally have to be done by [redacted] since the Laboratory is not equipped for fabricating orders of this type. If the entire problem is given to [redacted] of course we have the possibility of modifying the existing antenna to provide space for the [redacted] and associated circuits. If done by the Laboratory and [redacted] together, it would probably be most expeditious to have the hearing aid and associated components packaged so as to clamp to the present types of [redacted] antennas. 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1

5. Reviewing briefly, 20 [redacted] horn-type antennas must be fabricated; that is, five of each frequency range. Twenty-five [redacted] must be modified, and pulse stretching and matching transformer networks must be added. Relative to the workload involved, the contractual procedures which would face EP would be approximately equal for either of the methods which might be chosen. 25X1 25X1

[redacted] 25X1

OC-E/R&D-EP/JCB:mmb (2 November 1955)

CC: R&D Subject File
R&D Lab
OC-SP/EA
Dev-ep

SECRET